Applicant : Michael David Schmitz
Serial No. : 10/620,378
Filed : July 17, 2003
Page : 2 of 25

Attorney's Docket No.: 06975-383001 /
Communications 100

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1.   (Currently Amended) A method for displaying driving directions having multiple maneuvers, the method comprising:

accessing maneuver information for a route from an origin to a destination, wherein the maneuver information comprises text information;

presenting, as a constituent part of the driving directions, a first maneuver along the route involving a particular interstate;

presenting, as another constituent part of the driving directions, a second maneuver along the route involving the particular interstate, such that the first and second maneuvers are presented consecutively among the driving directions; and

associating an interstate shield route symbol that has substantially the same appearance as an interstate road sign and includes a road number with less than all presented [[a]] maneuvers being presented along the route and involving the particular interstate of the driving directions that represents a first occurrence of a particular interstate having the road number in a list of maneuvers for the route.

2.   (Currently Amended) The method of claim 1 A method for displaying driving directions having multiple maneuvers, the method comprising:

accessing maneuver information for a route from an origin to a destination;

associating an interstate shield route symbol that has substantially the same appearance as an interstate road sign and includes a road number with a maneuver of the driving directions that represents a first occurrence of a particular interstate having the road number in a list of maneuvers for the route; and

Applicant : Michael David Schmitz
Serial No. : 10/620,378
Filed : July 17, 2003
Page : 3 of 25

Attorney's Docket No.: 06975-383001 /
Communications 100

~~further comprising~~ repeating the associating until all first occurrences of particular interstates are associated with corresponding interstate shield route symbols.

3.   (Currently Amended) The method of claim [[1]] 2 further comprising repeating the associating until all occurrences of particular interstates are associated with corresponding interstate shield route symbols.

4.   (Currently Amended) ~~The method of claim 1~~ A method for displaying driving directions having multiple maneuvers, the method comprising:

    accessing maneuver information for a route from an origin to a destination; and

    ~~wherein~~ associating an interstate shield route symbol ~~comprises~~ that has substantially the same shape as an interstate road sign and includes a road number with a maneuver of the driving directions that represents a first occurrence of a particular interstate having the road number in a list of maneuvers for the route.

5.   (Currently Amended) ~~The method of claim 1~~

    A method for displaying driving directions having multiple maneuvers, the method comprising:

    accessing maneuver information for a route from an origin to a destination; and

    ~~wherein associating an interstate shield route symbol comprises~~ associating an interstate shield route symbol that has substantially the same coloration as an interstate road sign and includes a road number with a maneuver of the driving directions that represents a first occurrence of a particular interstate having the road number in a list of maneuvers for the route.

6.   (Currently Amended) The method of claim 1 further comprising associating a highway shield route symbol that has substantially the same appearance as a highway road sign and includes a road number with a maneuver of driving directions maneuver that represents only a first occurrence of a particular highway having the road number in the list of maneuvers for the route.

7.   (Original) The method of claim 6 wherein associating a highway shield route symbol comprises associating a highway shield route symbol that has substantially the same shape as a highway road sign.

8.   (Original) The method of claim 6 wherein associating a highway shield route symbol comprises associating a highway shield route symbol that has substantially the same coloration as a highway road sign.

9.   (Original) The method of claim 6 further comprising associating a turn route symbol with a maneuver based on a turn angle of the maneuver when the maneuver does not represent a first occurrence of a particular interstate having a particular road number in the list of maneuvers for the route and the maneuver does not represent a first occurrence of a particular highway having a particular road number in the list of maneuvers.

10.   (Original) The method of claim 9 wherein associating the turn route symbol comprises associating a slight left turn route symbol with a maneuver that includes a turn angle of a slight left turn.

11.   (Original) The method of claim 9 wherein associating the turn route symbol comprises associating a slight right turn route symbol with a maneuver that includes a turn angle of a slight right turn.

12.   (Original) The method of claim 9 wherein associating the turn route symbol comprises associating a sharp left turn route symbol with a maneuver that includes a turn angle of a sharp left turn.

13.   (Original) The method of claim 9 wherein associating the turn route symbol comprises associating a sharp right turn route symbol with a maneuver that includes a turn angle of a sharp right turn.

Applicant : Michael David Schmitz
Serial No. : 10/620,378
Filed : July 17, 2003
Page : 5 of 25

Attorney's Docket No.: 06975-383001 /
Communications 100

14.   (Original) The method of claim 9 wherein associating the turn route symbol comprises associating a merge route symbol with a maneuver that includes an angle of a merge of two roads.

15.   (Original) The method of claim 9 wherein associating the turn route symbol comprises associating an exit route symbol with a maneuver that includes a turn angle of an exit from a highway or an interstate.

16.   (Original) The method of claim 9 wherein at most one route symbol is associated with a particular maneuver.

17.   (Original) The method of claim 1 further comprising:

applying priority information to determine a route symbol type of several route symbol types to be associated with a maneuver of the driving directions that does not represent a first occurrence of a particular interstate; and

associating the route symbol type with the maneuver.

18.   (Original) The method of claim 1 further comprising displaying driving directions including the interstate shield route symbol associated with a maneuver.

19.   (Original) The method of claim 18 wherein the driving directions are displayed by a system provided through an Internet service provider.

20.   (Original) The method of claim 18 wherein the driving directions are displayed by a printer associated with a client system.

21.   (Original) The method of claim 18 wherein the driving directions are displayed by a display device associated with a client system.

Applicant : Michael David Schmitz
Serial No. : 10/620,378
Filed : July 17, 2003
Page : 6 of 25

Attorney's Docket No.: 06975-383001 /
Communications 100

22.   (Original) The method of claim 18 wherein the driving directions are displayed by a display device associated with a vehicle on-board navigation system.

23.   (Currently Amended) A method for displaying driving directions having multiple maneuvers, the method comprising:

accessing maneuver information representing driving directions for a route from an origin to a destination, wherein the maneuver information comprises textual information;

~~applying priority information to determine a route symbol of several route symbol types to be associated with a maneuver of the driving directions; and~~

accessing priority information that includes, for each of several route symbol types, a priority and a condition;

determining a route symbol of the several route symbol types to be associated with a maneuver of the driving directions based on a priority associated with the route symbol and the maneuver fulfilling a condition associated with the route symbol; and

associating the route symbol with the maneuver,

wherein[[:]]

~~an interstate shield route symbol that has substantially the same appearance as an interstate road sign and includes a road number is associated with a maneuver of the driving directions that represents an occurrence of a particular interstate having the road number in a list of maneuvers for the route, and~~

each maneuver in the list of maneuvers for the route is associated with at most one route symbol.

24.   (Currently Amended) ~~The method of claim 23 further comprising~~ A method for displaying driving directions having multiple maneuvers, the method comprising:

accessing maneuver information for a route from an origin to a destination;

associating an interstate shield route symbol that has substantially the same appearance as an interstate road sign and includes a road number with a maneuver of the driving directions that represents a first occurrence of a particular interstate having the road number in a list of maneuvers for the route; and

Applicant : Michael David Schmitz
Serial No. : 10/620,378
Filed : July 17, 2003
Page : 7 of 25

Attorney's Docket No.: 06975-383001 /
Communications 100

repeating the associating until all first occurrences of particular interstates are associated with corresponding interstate shield route symbols.

25. (Currently Amended) The method of claim [[23]] 24 further comprising repeating the associating until all occurrences of particular interstates are associated with corresponding interstate shield route symbols.

26. (Currently Amended) The method of claim 23 ~~wherein~~ further comprising associating a highway shield route symbol that has substantially the same appearance as a highway road sign and includes a road number ~~is associated~~ with a second maneuver of driving directions that represents an occurrence of a particular highway having the road number in the list of maneuvers for the route.

27. (Currently Amended) ~~The method of claim 23 wherein~~ A method for displaying driving directions having multiple maneuvers, the method comprising:

accessing maneuver information for a route from an origin to a destination;

applying priority information to determine a route symbol of several route symbol types to be associated with a maneuver of the driving directions; and

associating the route symbol with the maneuver,

wherein:

an interstate shield route symbol that has substantially the same appearance as an interstate road sign and includes a road number is associated with a maneuver of the driving directions that represents an occurrence of a particular interstate having the road number in a list of maneuvers for the route,

each maneuver in the list of maneuvers for the route is associated with at most one route symbol, and

the interstate shield route symbol comprises a highway shield route symbol of a country other than the United States.

Applicant : Michael David Schmitz   Attorney's Docket No.: 06975-383001 /
Serial No. : 10/620,378   Communications 100
Filed   : July 17, 2003
Page   : 8 of 25

28.   (Currently Amended) A computer-readable medium or propagated signal having embodied thereon a computer program configured to display driving directions having multiple maneuvers, the medium or signal comprising one or more code segments configured to:

access maneuver information for a route from an origin to a destination, wherein the maneuver information comprises text information;

present, as a constituent part of the driving directions, a first maneuver along the route involving a particular interstate;

present, as another constituent part of the driving directions, a second maneuver along the route involving the particular interstate, such that the first and second maneuvers are presented consecutively among the driving directions; and

associate an interstate shield route symbol that has substantially the same appearance as an interstate road sign and includes a road number with less than all presented [[a]] maneuvers being presented along the route and involving the particular interstateof the driving directions that represents a first occurrence of a particular interstate having the road number in a list of maneuvers for the route.

29.   (Currently Amended) The medium of claim 28 wherein the one or more code segments are further configured to A computer-readable medium or propagated signal having embodied thereon a computer program configured to display driving directions having multiple maneuvers, the medium or signal comprising one or more code segments configured to:

access maneuver information for a route from an origin to a destination;

associate an interstate routing symbol that has substantially the same appearance as an interstate road sign and includes a road number with the a first maneuver of the driving directions that represents a first occurrence of a particular interstate having the road number in a list of maneuvers for the route; and

repeat the associating until all first occurrences of particular interstates are associated with corresponding interstate shield route symbols.

Applicant : Michael David Schmitz
Serial No. : 10/620,378
Filed   : July 17, 2003
Page   : 9 of 25

Attorney's Docket No.: 06975-383001 /
Communications 100

30.   (Currently Amended) The medium of claim [[28]] 29 wherein the one or more code segments are further configured to repeat the associating until all occurrences of particular interstates are associated with corresponding interstate shield route symbols.

31.   (Currently Amended) The medium of claim 28 wherein the one or more code segments are further configured to associate a highway shield route symbol that has substantially the same appearance as a highway road sign and includes a road number with a maneuver of driving directions maneuver that represents only a first occurrence of a particular highway having the road number in the list of maneuvers for the route.

32.   (Original) The medium of claim 31 wherein the one or more code segments are further configured to associate a turn route symbol with a maneuver based on a turn angle of the maneuver when the maneuver does not represent a first occurrence of a particular interstate having a particular road number in the list of maneuvers for the route and the maneuver does not represent a first occurrence of a particular highway having a particular road number in the list of maneuvers.

33.   (Original) The medium of claim 28 wherein the one or more code segments are further configured to:
    apply priority information to determine a route symbol type of several route symbol types to be associated with a maneuver of the driving directions that does not represent a first occurrence of a particular interstate; and
    associate the route symbol type with the maneuver.

34.   (Original) The medium of claim 28 wherein the one or more code segments are further configured to display driving directions including the interstate shield route symbol associated with a maneuver.

35.   (Currently Amended) A computer-readable medium or propagated signal having embodied thereon a computer program configured to display driving directions having multiple maneuvers, the medium or signal comprising one or more code segments configured to:

access maneuver information representing driving directions for a route from an origin to a destination, wherein the maneuver information comprises text information;

~~apply priority information to determine a route symbol of several route symbol types to be associated with a maneuver of the driving directions; and~~

access priority information that includes, for each of several route symbol types, a priority and a condition;

determine a route symbol of the several route symbol types to be associated with a maneuver of the driving directions based on a priority associated with the route symbol and the maneuver fulfilling a condition associated with the route symbol; and

associate the route symbol with the maneuver,

wherein[[:]]

~~an interstate shield route symbol that has substantially the same appearance as an interstate road sign and includes a road number is associated with a maneuver of the driving directions that represents an occurrence of a particular interstate having the road number in a list of maneuvers for the route, and~~

each maneuver in the list of maneuvers for the route is associated with at most one route symbol.

36.   (Original) The medium of claim 35 wherein a highway shield route symbol that has substantially the same appearance as a highway road sign and includes a road number is associated with a second maneuver of driving directions that represents an occurrence of a particular highway having the road number in the list of maneuvers for the route.

37.   (Currently Amended) ~~The medium of claim 35 wherein~~ A computer-readable medium or propagated signal having embodied thereon a computer program configured to display driving directions having multiple maneuvers, the medium or signal comprising one or more code segments configured to:

Applicant : Michael David Schmitz
Serial No. : 10/620,378
Filed : July 17, 2003
Page : 11 of 25

Attorney's Docket No.: 06975-383001 /
Communications 100

access maneuver information for a route from an origin to a destination;

apply priority information to determine a route symbol of several route symbol types to be associated with a maneuver of the driving directions; and

associate the route symbol with the maneuver,

wherein:

an interstate shield route symbol that has substantially the same appearance as an interstate road sign and includes a road number is associated with a maneuver of the driving directions that represents an occurrence of a particular interstate having the road number in a list of maneuvers for the route, and

each maneuver in the list of maneuvers for the route is associated with at most one route symbol, and

the interstate shield route symbol comprises a highway shield route symbol of a country other than the United States.

38.   (Currently Amended) A system for displaying driving directions having multiple maneuvers, the system comprising ~~a processor connected to a storage device and one or more input/output devices, wherein the processor is configured to~~:

means for accessing maneuver information for a route from an origin to a destination, wherein the maneuver information comprises text information;

means for presenting, as a constituent part of the driving directions, a first maneuver along the route involving a particular interstate;

means for presenting, as another constitute part of the driving directions, a second maneuver along the route involving the particular interstate, such that the first and second maneuvers are presented consecutively among the driving directions; and

means for ~~associate~~ associating an interstate shield route symbol that has substantially the same appearance as an interstate road sign ~~and includes a road number~~ with less than all presented [[a]] maneuvers being presented along the route and involving the particular interstate ~~of the driving directions that represents a first occurrence of a particular interstate having the road number in a list of maneuvers for the route~~.

Applicant : Michael David Schmitz
Serial No. : 10/620,378
Filed : July 17, 2003
Page : 12 of 25

Attorney's Docket No.: 06975-383001 /
Communications 100

39.   (Currently Amended) ~~The system of claim 38 wherein the processor is further configured to~~ A system for displaying driving directions having multiple maneuvers, the system comprising:

means for accessing maneuver information for a route from an origin to a destination;

means for associating an interstate shield route symbol that has substantially the same appearance as an interstate road sign and includes a road number with a maneuver of the driving directions that represents a first occurrence of a particular interstate having the road number in a list of maneuvers for the route; and

means for repeating the associating until all first occurrences of particular interstates are associated with corresponding interstate shield route symbols.

40.   (Currently Amended) The system of claim [[38]] 39 further comprising means for ~~wherein the processor is further configured to~~ repeating the associating until all occurrences of particular interstates are associated with corresponding interstate shield route symbols.

41.   (Currently Amended) The system of claim 38 ~~wherein the processor is further configured to~~ further comprising means for ~~associate~~ associating a highway shield route symbol that has substantially the same appearance as a highway road sign and includes a road number with a maneuver of driving directions maneuver that represents only a first occurrence of a particular highway having the road number in the list of maneuvers for the route.

42.   (Currently Amended) The system of claim 41 ~~wherein the processor is further configured to~~ further comprising means for associating ~~associate~~ a turn route symbol with a maneuver based on a turn angle of the maneuver when the maneuver does not represent a first occurrence of a particular interstate having a particular road number in the list of maneuvers for the route and the maneuver does not represent a first occurrence of a particular highway having a particular road number in the list of maneuvers.

43.   (Currently Amended) The system of claim 38 ~~wherein the processor is further configured to~~ further comprising:

means for applying priority information to determine a route symbol type of several route symbol types to be associated with a maneuver of the driving directions that does not represent a first occurrence of a particular interstate; and

means for associating ~~associate~~ the route symbol type with the maneuver.

44.   (Currently Amended) The system of claim 38 ~~wherein the processor is further configured to~~ further comprising means for displaying driving directions including the interstate shield route symbol associated with a maneuver.

45.   (Currently Amended) A system for displaying driving directions having multiple maneuvers, the system comprising ~~a processor connected to a storage device and one or more input/output devices, wherein the processor is configured to~~:

means for accessing maneuver information representing driving directions for a route from an origin to a destination, wherein the maneuver information comprises text information;

~~apply priority information to determine a route symbol of several route symbol types to be associated with a maneuver of the driving directions; and~~

means for accessing priority information that includes, for each of several route symbol types, a priority and a condition;

means for determining a route symbol of the several route symbol types to be associated with a maneuver of the driving directions based on a priority associated with the route symbol and the maneuver fulfilling a condition associated with the route symbol; and

means for associating ~~associate~~ the route symbol with the maneuver,

wherein[[:]]

~~an interstate shield route symbol that has substantially the same appearance as an interstate road sign and includes a road number is associated with a maneuver of the driving directions that represents an occurrence of a particular interstate having the road number in a list of maneuvers for the route, and~~

each maneuver in the list of maneuvers for the route is associated with at most one route symbol.

Applicant : Michael David Schmitz
Serial No. : 10/620,378
Filed : July 17, 2003
Page : 14 of 25

Attorney's Docket No.: 06975-383001 /
Communications 100

46.   (Currently Amended) The system of claim 45 ~~wherein~~ further comprising means for associating a highway shield route symbol that has substantially the same appearance as a highway road sign and includes a road number ~~is associated~~ with a second maneuver of driving directions that represents an occurrence of a particular highway having the road number in the list of maneuvers for the route.

47.   (Currently Amended) ~~The system of claim 45 wherein~~ A system for displaying driving directions having multiple maneuvers, the system further comprising:
        means for accessing maneuver information for a route from an origin to a destination;
        means for applying priority information to determine a route symbol of several route symbol types to be associated with a maneuver of the driving directions; and
        means for associating the route symbol with the maneuver,
        wherein:
        an interstate shield route symbol that has substantially the same appearance as an interstate road sign and includes a road number is associated with a maneuver of the driving directions that represents an occurrence of a particular interstate having the road number in a list of maneuvers for the route,
        each maneuver in the list of maneuvers for the route is associated with at most one route symbol, and
        the interstate shield route symbol comprises a highway shield route symbol of a country other than the United States.

48.   (New) The method of claim 1 wherein:
        the interstate shield route symbol is associated with the maneuver that represents only the first occurrence of the particular interstate among multiple consecutive driving directions involving the particular interstate, and
        the method further comprising presenting the route symbol with a later maneuver that appears in the driving directions and that involves the particular interstate if the later maneuver is separated by at least one intermediary maneuver from the multiple consecutive driving directions involving the interstate.

49.   (New) The medium of claim 28 wherein:

the interstate shield route symbol is associated with the maneuver that represents only the

first occurrence of the particular interstate among multiple consecutive driving directions

involving the particular interstate, and

the code segments are further configured to present the route symbol with a later

maneuver that appears in the driving directions and that involves the particular interstate if the

later maneuver is separated by at least one intermediary maneuver from the multiple consecutive

driving directions involving the interstate.

50.   (New) The system of claim 38 wherein:

the interstate shield route symbol is associated with the maneuver that represents only the

first occurrence of the particular interstate among multiple consecutive driving directions

involving the particular interstate, and

the processor is further configured to present the route symbol with a later maneuver that

appears in the driving directions and that involves the particular interstate if the later maneuver is

separated by at least one intermediary maneuver from the multiple consecutive driving directions

involving the interstate.

51.   (New) A method for displaying driving directions having multiple maneuvers,

the method comprising:

accessing maneuver information that includes driving directions for a route from an

origin to a destination;

determining the existence within the maneuver information of multiple consecutive

driving directions involving a particular road; and

for a group of multiple consecutive driving directions involving the particular road,

presenting at least one instance of a road-related graphic, wherein the number of separate

instances of the road-related graphic presented is fewer than a number of consecutive directions

within the group that involve the particular road.

Applicant : Michael David Schmitz
Serial No. : 10/620,378
Filed : July 17, 2003
Page : 16 of 25

Attorney's Docket No.: 06975-383001 /
Communications 100

52. (New) The method of claim 51 wherein the road-related graphic corresponding to the road comprises a graphical representation of the road.

53. (New) The method of claim 51 wherein only one road-related graphic is presented corresponding to the multiple consecutive mapping directions within the group.

54. (New) The method of claim 53 wherein the one road-related graphic is visually oriented corresponding to a first of the multiple consecutive mapping directions in the group.

55. (New) The method of claim 51 wherein mapping directions comprises text information.

56. (New) The method of claim 51 wherein:

a particular road is an interstate, and

the road-related graphic has substantially the same appearance as an interstate road sign and includes a road number associated with the interstate.

57. (New) The method of claim 51 wherein:

a particular road is a highway, and

the road-related graphic has substantially the same appearance as a highway road sign and includes a road number associated with the highway.